

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IL 03/00272

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01S3/0941 H01S3/042 H01S3/07

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01S

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, PAJ, WPI Data, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98 32197 A (LASER POWER CORP) 23 July 1998 (1998-07-23)	1-9, 12-19 10,11
Y	page 1, paragraphs 1,2; page 8, paragraph 2 - page 9, paragraph 1; page 17, line 4 - page 21, line 16; page 29, line 5 - page 30, line 11; page 35, line 1 - page 36, line 8; figures 1,4,6	
X	WO 00 64016 A (MILLER ROBERT JOHN DWAYNE ;WALKER DAVID RONALD (CA); LIAO YAN (CA)) 26 October 2000 (2000-10-26)	1,2,4,5, 9-12,17
Y	page 6, line 14 - page 9, line 10; page 12, line 3 - line 11; figures 1,2A	10,11
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

21 July 2003

Date of mailing of the international search report

05/08/2003

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 41 32 063 A (DEUTSCHE AEROSPACE) 8 April 1993 (1993-04-08) the whole document ---	1-7,9, 12,17
A	LEBIUSH E ET AL: "High power high repetition rate diode side-pumped Q-switched Nd:YAG rod laser" OPTICS COMMUNICATIONS, NORTH-HOLLAND PUBLISHING CO. AMSTERDAM, NL, vol. 145, no. 1-6, 1998, pages 119-122, XP004102694 ISSN: 0030-4018 the whole document ---	8,14
A	PAYNE S A ET AL: "Diode arrays, crystals, and thermal management for solid-state lasers" IEEE JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS, FEB. 1997, IEEE, USA, vol. 3, no. 1, pages 71-81, XP002248462 ISSN: 1077-260X page 77, right-hand column, paragraph 2 -page 78, right-hand column, paragraph 1; figure 14 ---	8,14
A	TSUNEKANE M ET AL: "REDUCTION OF THERMAL EFFECTS IN A DIODE-END-PUMPED, COMPOSITE ND: YAG ROD WITH A SAPPHIRE END" APPLIED OPTICS, OPTICAL SOCIETY OF AMERICA, WASHINGTON, US, vol. 37, no. 15, 20 May 1998 (1998-05-20), pages 3290-3294, XP000765283 ISSN: 0003-6935 the whole document ---	1-19
A	WEBER R ET AL: "COOLING SCHEMES FOR LONGITUDINALLY DIODE LASER-PUMPED ND:YAG RODS" IEEE JOURNAL OF QUANTUM ELECTRONICS, IEEE INC. NEW YORK, US, vol. 34, no. 6, 1 June 1998 (1998-06-01), pages 1046-1053, XP000765507 ISSN: 0018-9197 the whole document -----	1-19

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IL 03/00272

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9832197	A	23-07-1998	US 5796766 A	18-08-1998
			AU 5701298 A	07-08-1998
			DE 69711085 D1	18-04-2002
			DE 69711085 T2	31-10-2002
			EP 0953220 A1	03-11-1999
			WO 9832197 A1	23-07-1998
			US 6101201 A	08-08-2000
			US 6389043 B1	14-05-2002
WO 0064016	A	26-10-2000	US 6385220 B1	07-05-2002
			AU 4279200 A	02-11-2000
			WO 0064016 A1	26-10-2000
			CA 2371126 A1	26-10-2000
			DE 60001565 D1	10-04-2003
			EP 1183756 A1	06-03-2002
DE 4132063	A	08-04-1993	DE 4132063 A1	08-04-1993